

# Polyclonal Anti- CD79b Picoband™ Antibody

Catalog Number: PB9169

## Description

<b>Gene Name</b>	CD79b molecule, immunoglobulin-associated beta
<b>Recommended Protein Name</b>	B-cell antigen receptor complex-associated protein beta chain
<b>Lot No.</b>	0911412Da0369111
<b>Size</b>	100µg/vial
<b>Form</b>	lyophilized
<b>Ig type</b>	Rabbit IgG
<b>Specificity</b>	No cross reactivity with other proteins.
<b>Purification</b>	Immunogen affinity purified.
<b>Species</b>	<b>Reacts with:</b> human, mouse, rat
<b>Immunogen</b>	E.coli-derived human CD79b recombinant protein (Position: A29-E229). Human CD79b shares 70% amino acid (aa) sequence identity with mouse CD79b.
<b>Contents</b>	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .

## Application

	Concentration	Tested Species	Antigen Retrieval
Western blot	0.1-0.5µg/ml	Hu	-
Immunohistochemistry (Paraffin-embedded Section)	0.5-1µg/ml	Hu, Ms, Rat	By Heat
Immunocytochemistry	0.5-1µg/ml	Hu	-

**WB: The detection limit for CD79b is approximately 0.25ng/lane under reducing conditions.**

**Tested Species:** In-house tested species with positive results.

**By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections.**

*Other applications have not been tested.*

*Optimal dilutions should be determined by end users.*

## Preparation and storage

**Reconstitution:** 0.2ml of distilled water will yield a concentration of 500µg/ml.

**Storage:** At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time.

Avoid repeated freezing and thawing.

## Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB, supported by SA1022 in IHC(P) and ICC.

## Background

CD79b molecule, immunoglobulin-associated beta, also known as CD79B (Cluster of Differentiation 79B), is a human gene. By fluorescence in situ hybridization, It is mapped to 17q23.3. The CD79B protein together with the related CD79A protein, forms a dimer associated with membrane bound immunoglobulin in B-cells, thus forming the B-cell antigen receptor (BCR) which is a multimeric complex that includes the antigen-specific component, surface immunoglobulin (Ig). CD79b also can enhances phosphorylation of CD79A, possibly by recruiting kinases which phosphorylate CD79A or by recruiting proteins which bind to CD79A and protect it from dephosphorylation.

## Reference

1. "Entrez Gene: CD79B CD79b molecule, immunoglobulin-associated beta"
2. Dobbs, A. K., Yang, T., Farmer, D., Kager, L., Parolini, O., Conley, M. E. Cutting edge: a hypomorphic mutation in Ig-beta (CD79b) in a patient with immunodeficiency and a leaky defect in B cell development. J. Immun. 179: 2055-2059, 2007.
3. Wood, W. J., Jr., Thompson, A. A., Korenberg, J., Chen, X., May, W., Wall, R., Denny, C. T. Isolation and chromosomal mapping of the human immunoglobulin-associated B29 gene (IGB). Genomics 16: 187-192, 1993.